MITCHELL BURK

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TECHNICAL SKILLS

Languages: Python, JavaScript, SQL/MySQL, NoSQL, Dart, Go, HTML, Bash, PowerShell
Frameworks: Flutter, NextJs, Flask, Tailwind, Django
Developer Tools: VS Code, Git, Google Cloud Platform, Visual Studio
Libraries: Pandas, NumPy, Matplotlib, scikit-learn, PyTorch, TensorFlow
Operating Systems: Windows, Linux (primarily Debian-based distributions)
Cybersecurity: Threat Analysis, Incident Response, Assessments, Reporting, 2FA

EXPERIENCE

Co-Founder & Software Developer   Mar. 2024 – Present
Sphere Creations   *Schererville, IN*
- Currently developing a mobile app using Flutter
- Created and managed a robust database using Firebase to ensure efficient data storage and retrieval
- Developed custom analytics solutions to track and interpret data insights
- Collaborated with team members to conduct user testing and gather feedback for continuous improvement

Family Medical Leave of Absence   Sep. 2021 – Sep. 2023
Family Medical Leave of Absence   *Indiana*
- Initiated studies for the Cisco Certified DevNet Associate certification
- Volunteered IT services at local businesses
- Maintained up-to-date knowledge of the latest industry advancements
- Provided tutoring in Python and Java to college students

Machine Learning Researcher   Mar. 2020 – Aug. 2021
Purdue University Northwest   *Hammond, IN*
- Conducted research in Natural Language Processing (NLP) with a focus on visualizing multi-dimensional word embeddings
- Compiled, cleaned, and manipulated data for proper handling
- Streamlined operations by managing account setups, software installations, and automation processes, resulting in significant time savings and enhanced productivity

Security Specialist   Sep. 2018 – Nov. 2019
Purdue University Northwest   *Hammond, IN*
- Responded to incidents involving spam/phishing emails, compromised accounts, and suspicious network activity
- Developed Python scripts to parse unstructured reports, optimizing information flow and boosting productivity
- Contributed to the development of weekly 'Security Tips' communications distributed to all faculty, staff, and students
- Compiled security reports and metrics to assess performance and guide strategic enhancements
- Collaborated on system road mapping, design, and launch efforts to mitigate information vulnerabilities
- Monitored virus reports to evaluate risks and implement timely updates to protection systems

PROJECTS

ScentSphere | *Flutter, Firebase, Dart, Python, NoSQL, Git, Machine Learning*   Mar. 2024 – Present
- Developing a cross-platform mobile application with Flutter, focused on fragrance exploration
- Implemented a cloud database using Firebase and a local instance using ISAR
- Designed and developed a custom algorithm to recommend fragrances based on local weather conditions
- Created a Machine Learning methodology to create a fragrance recommendation system

EDUCATION

Purdue University Northwest   Hammond, IN
Bachelor of Science in Computer Information Technology   *Aug. 2016 – May 2020*